

## **Propagation of electromagnetic waves in waveguides of complicated configuration**

Bashkov V., Staroverova M.

*Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia*

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### **Abstract**

Behavior of the electromagnetic waves in waveguides of complicated configuration is studied. The form of exact solutions of Maxwell's equations inside such waveguides is predicted using methods of modern geometry. The dependence of Rytov's law on the waveguide configuration is studied.

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